*FOR THE MEDICAL PROFESSION ONLY.*

# COLLOSOL FERRO-MALT

*(CROOKES)*

A valuable addition to resources in the treatment of Anæmia, Chlorosis, Convalescence and all conditions of Asthenia


## THE CROOKES LABORATORIES

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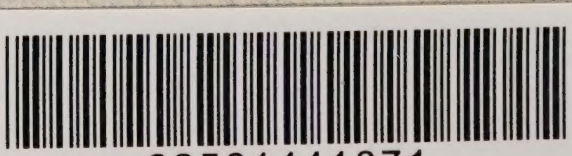

# Collosol Ferro-Malt

*A valuable addition to resources in the treatment of Anæmia, Chlorosis, Convalescence and all conditions of Asthenia.*

Collosol
FERROMALT
CHOCOLATE COLLOIDAL IRON
WITH MALT EXTRACT
Specially prepared to contain those necessary food factors (vitamines) essential to cell metabolism.
THE iron in this preparation is in a very fine state of subdivision and is absorbed without the usual disturbance often associated with drugs, such as constipation and dyspepsia.
DOSAGE.
One to two teaspoonfuls to be taken with a little water three or four times a day, after meals, or as directed by the physician.
Crookes' Laboratories
Crookes Colloids, Ltd.
22, Chenies Street,
London, W.C.1.

# FOREWORD

Particulars of these preparations are already known to many members of the medical profession, but the importance of being able to secure such effective and reliable reconstituents, absolutely free from undesirable after effects, justifies this reminder to all doctors, particularly at this season.

As a result of extended clinical trials over a period of years, the favourable impressions of medical men have consolidated into the conviction that these products merit the utmost confidence, and full advantage will doubtless be taken of the opportunities to prescribe this winter.

DURING the winter months when the need of an effective and reliable reconstituent is mostly felt, the preparation with a malt base is largely favoured in medical circles.

The use of malt secures much support as it possesses peculiarly valuable and nutritive properties. The medicinal value of malt extract depends upon the proportion of total solid nutritive carbohydrate it contains, and upon its diastatic action, the latter enabling it to convert the starchy constituents of food into soluble carbohydrates, chiefly maltose.

As a means for the administration of adjuncts to treatment therefore, malt extract is particularly useful, and recognition of this fact is demonstrated by the many malt products now available. But the reinforcing agent of the malt extract calls for special care in selection.

The combined product should fulfil the following requirements :—

(1) Maximum nutritive properties.

(2) A guarantee of replacement of hæmoglobin deficiency.

(3) Palatability.

(4) Complete freedom from objectionable sequelæ.

The adjuvant carefully chosen to fulfil in the greatest degree these requirements is Collosol Ferrum (Crookes' colloidal iron). This contains one part of iron in two thousand of solution in the form of colloidal ferric hydroxide Fe (HO) 3. The colloidal condition is stabilised by the presence of suitable protectives.

Collosol Ferrum *per se*, is an extremely valuable ferruginous tonic for the treatment of chlorosis, anæmia and the convalescent stages following acute fevers and other infective conditions.

It is also advantageous in the treatment of anæmia from hæmorrhage and in the toxic anæmias of lead poisoning, mercury poisoning and various drug habits ; secondary anæmias, the result of specific or organic disease, are also benefited by a course of the preparation. Collosol Ferrum does not precipitate solutions of egg albumen, it cannot therefore be astringent nor cause gastric upset by precipitating the proteins of the food. Collosol Ferrum remains stable even in a 5 per cent. solution of sodium chloride and therefore this colloid does not undergo agglutination by the action of electrolytes in the stomach.

Collosol Ferrum not only increases the number of erythrocytes and their hæmoglobin content, but it also improves the appetite and general health of the patient.

It has been demonstrated by experiment that the amount of iron contained

in an average daily diet is about 5 to 10 milligrams. Collosol Ferrum contains in each fluid drachm 3.55 milligrams of colloidal hydroxide of iron; the amount of iron supplied to the patient can be regulated to correspond with that which the normal individual absorbs from his food, and supplied in the colloidal form in which it exists in a normal diet. The outstanding merits of Collosol Ferrum are particularly demonstrable in that class of anæmic patient intolerant of the ordinary iron tonic. In such individuals, when treated with Collosol Ferrum alone, there is an entire absence of symptoms of gastric irritation and hyperacidity and of constipation, while owing to the lack of the astringent taste Collosol Ferrum is acceptable even to children.

It will be seen, therefore, that a combination of these two substances, pure malt extract and colloidal iron,

results in a compound which will possess great potentialities in its clinical application.

The combination is known to the profession as Collosol Ferro-Malt.

Collosol Ferro-Malt enjoys the confidence of the medical profession to a remarkable degree. It is now in general use by Local Health Authorities, School Clinics, and in the leading hospitals throughout the country, whilst it is employed in all the Services.

Details of Collosol Ferro-Malt, its composition, action and clinical scope together with particulars of its combination with compatible adjuvants to treatment, will be found in the following pages.

# COLLOSOL FERRO-MALT (CROOKES)

## Composition

Collosol Ferro-Malt is a syrupy fluid containing 0.1 per cent. of colloidal iron along with pure malt extract. One fluid drachm contains 3.55 milligrams of colloidal iron hydroxide. Collosol Ferro-Malt has a pleasant sweetish taste which renders it an extremely acceptable preparation for children. It is best given in a little water either before food or two hours after food, so that the active diastase which it contains may not be destroyed by the acid gastric juice. Collosol Ferro-Malt contains an adequate amount of iron in a very fine state of subdivision and in readily absorbable but non-irritant form. The pure malt extract with which it is combined is highly nutritive: it contains maltose—

a sugar which does not readily ferment and cause acidity, dextrin, proteins, phosphates and the amylolytic ferment diastase, capable of converting many times its weight of starch into sugar. In addition the extract has been specially prepared to preserve in active condition the essential vitamins or accessory food factors of barley, namely the fat soluble A, antirachitic or growth factor and the water soluble B or antineuritic factor.

## Therapeutic Uses

Collosol Ferro-Malt is eminently suited for administration to children suffering from anæmias, rickets, general debility and wasting disease, and in the convalescent stages following acute fevers. It is in fact a hæmatinic and nutritive tonic stimulating growth, supplying nourishment, aiding amylaceous digestion and assimilation.

In adults it is of great value in the treatment of secondary anæmias; excellent results have been obtained in the anæmias following trench fever, malaria and trench foot, while in the treatment of the asthenia resulting from persistent carbuncles it has proved very good. In an anæmic woman with a colour index of 68 in whom other organic and inorganic preparations had failed, Collosol Ferro-Malt within three months increased her index to 90. (For references see Bibliography at page 20.)

## Dosage

1-4 fl. dr. in a little water three times a day after meals.

Under the heading of the anæmias, chlorosis, etc. a wide range of conditions is met with, most of which call

for special measures to combat the attendant debility.

In the selection of colloidal iron as an adjunct to malt extract, cognisance was taken of the fact that it combines very readily with many adjuvants to treatment now in general favour such as glycerophosphates, hypophosphites, etc. The range of Collosol Ferro-Malt combinations is so designed as to meet completely the varied and diverse phases likely to be met with in those cases in which iron can be beneficially prescribed.

# COLLOSOL FERRO-MALT WITH CASCARA (CROOKES)

## Composition

This preparation has the full ferruginous and nutritive value of Collosol Ferro-Malt, but each ounce contains in addition 2 grs. of Extractum Cascaræ Sagradæ Siccum B.P.

## Therapeutic Uses

This preparation is specially designed for that common type of case in which constipation or irregularity of the bowels is already coexistent with anæmia or debility. The dry extract of cascara has been specially chosen as the purgative principle because its action is certain although mild and without any griping; it gives rise, as a rule, to one soft motion generally in

the morning, and as it causes no subsequent atony of the bowel nor pelvic congestion, it may be used advantageously in the treatment of the amenorrhœa of chlorosis, in cases suffering from hæmorrhoids and in the anæmia following menorrhagia.

## Dosage

1-4 fl. dr. with a little water thrice daily after meals.

It is suitable for delicate and elderly persons and is a good laxative in hæmorrhoidal conditions.

# COLLOSOL FERRO-MALT WITH HÆMOGLOBIN (CROOKES)

## Composition

This preparation contains in addition to Collosol Ferro-Malt 2 grs. of pure hæmoglobin in each ounce.

## Therapeutic Uses

It is particularly valuable in that it contains adequate iron to supply the needs of the body, both in the form of the readily absorbable inorganic Collosol Ferrum and also of the natural ferruginous protein of the blood. Thus treatment of severe and intractable anæmias may at the discretion of the physician be carried out by the exhibition of iron, both in inorganic and organic combination.

## Dosage

1-4 fl. dr. in a little water thrice daily after meals.

# COLLOSOL FERRO-MALT WITH HYPOPHOSPHITES (CROOKES)

## Composition

A preparation embodying all the advantages of Collosol Ferro-Malt with in each ounce 2 grs. of calcium, sodium and potassium hypophosphites.

## Therapeutic Uses

The hypophosphites are in some quarters regarded clinically as possessing valuable effects in limiting phthisical expectoration, in promoting bone formation and in acting as nervine tonics. Collosol Ferro-Malt with hypophosphites should therefore be acceptable to physicians desirous of treating the anæmias associated with phthisis, rickets and nervous debility by means of a

readily absorbable and non-irritant preparation of iron along with the hypophosphites which themselves are so frequently prescribed for such conditions.

## Dosage

1-4 fl. dr. in a little water thrice daily after meals.

# COLLOSOL FERRO-MALT WITH GLYCEROPHOSPHATES (CROOKES)

## Composition

This preparation contains in addition to Collosol Ferro-Malt 2 grs. per ounce of the glycerophosphates of calcium, sodium and potassium.

## Therapeutic Uses

The clinical value of the glycerophosphates in the treatment of nervous debility and breakdown is well recognised, and like other phosphorus preparations they stimulate growth and metabolism, and increase the activity of the bone marrow. Collosol Ferro-Malt with glycerophosphates, being of a non-irritant character, is thus an extremely valuable preparation in the

treatment of various neuroses, nervous breakdown, neurasthenia, nervous dyspepsia, etc., where it combines the hæmatinic properties of iron with the nutritive value of pure malt extract with the tonic effects of the glycerophosphates on nervous tissue. In wasting diseases and in convalescent patients the stimulant effects of the glycerophosphates upon the bone marrow and general metabolism will also be found of advantage in promoting their recovery under a course of iron and malt extract. The importance of the presence in this preparation of both antirachitic and antineuritic food factors in active condition must not be overlooked.

## Dosage

1-4 fl. dr. in a little water thrice daily after meals.

# COLLOSOL FERRO-MALT WITH MANGANESE (CROOKES)

## Composition

Collosol Ferro-Malt containing Collosol Manganese 1-1,000 (0.1 per cent.).

## Therapeutic Uses

This preparation has been devised as an aid to the treatment of the persistent anæmias of women associated with amenorrhœa, metrorrhagia, or dysmenorrhœa and of the anæmic debility resultant from coccogenic infections against which Collosol Manganese has a specific action.

## Dosage

1-4 fl. dr. in a little water thrice daily after meals.

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